

## Utah Weekly Pertussis Update

2019 data, through MMWR week ending March 2 (MMWR week 9)

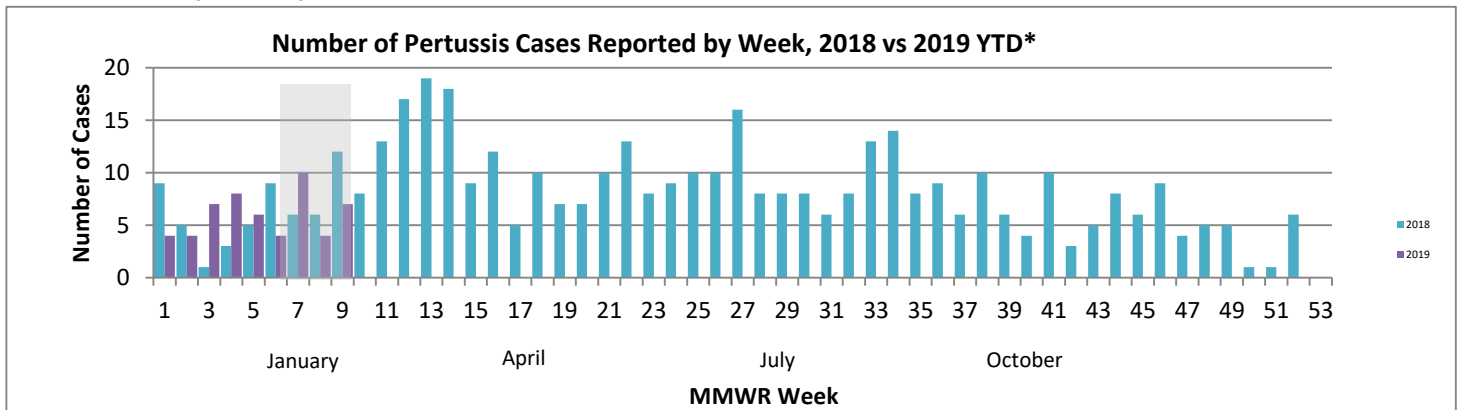
Data presented in this report are based on current data available and will be subject to change weekly.

### Data Summary

Total number of cases reported, 2019 year-to-date (YTD)	54	Utah Incidence rate, 2019 year-to-date (YTD) per 100,000 person-years	10.1
Total number of cases reported 2018	428	Utah Incidence rate, 2018 per 100,000 person-years	14.6
Number of cases reported in past week	7	National Incidence rate*, 2017 per 100,000 person-years.	5.8
Total number of cases reported, through same time period 2018	56	2019 Hospitalizations	1
Age groups with the highest rates	<1 1-4	2019 Cases in infants <1 year	4

\*National Incidence Rate is updated as released by the Centers for Disease Control and Prevention.

### Number of cases reported by week



\*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

### 2019 Year-to-Date Incidence Rates, By Age

Age (years)	2019 Cases	2017 population	Rate*
<1	4	51,401	45.1
1-4	7	203,799	19.9
5-14	17	521,331	18.9
15-24	9	495,829	10.5
25-34	5	457,423	6.3
35-44	4	422,547	5.5
45-54	4	317,532	7.3
55-64	3	296,399	5.9
65+	1	335,572	1.7
Unknown	0	-	-
Total	54	3,101,833	10.1

\* Rate is calculated per 100,000 person years.

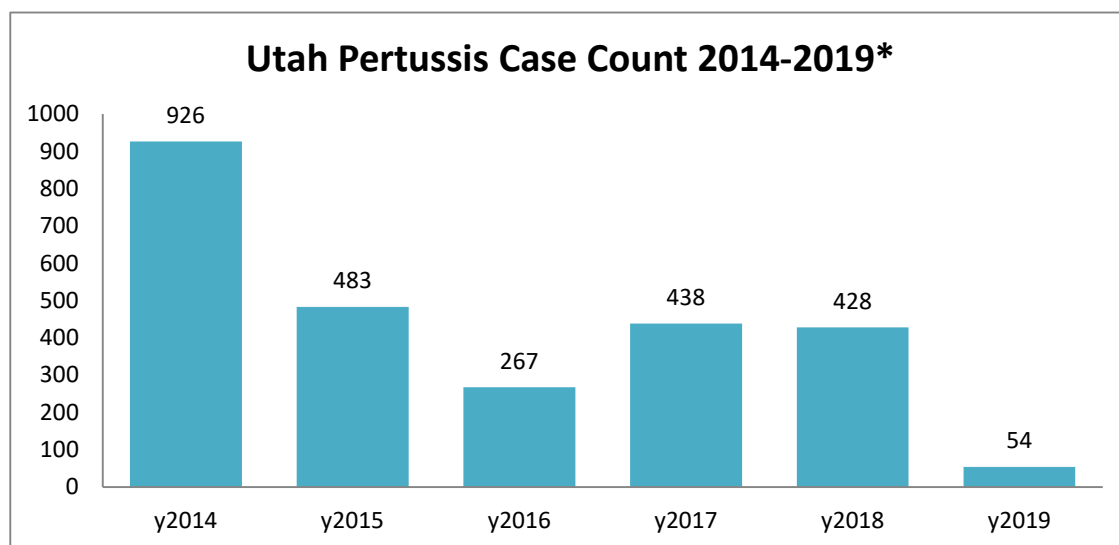
Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

### School Age Incidence Rates, 2019 Year-to-Date

Grade	Age (years)	2019 Cases	2017 Population	Rate*
Preschool	3-4	3	102,181	17.0
Kindergarten	5	0	49,869	0.0
1	6	2	51,269	22.6
2	7	0	52,299	0.0
3	8	1	52,131	11.1
4	9	3	53,612	32.4
5	10	3	53,712	32.4
6	11	1	52,765	11.0
7	12	4	52,359	44.3
8	13	2	51,910	22.3
9	14	1	51,405	11.3
10	15	2	49,974	23.2
11	16	2	49,983	23.2
12	17	1	50,211	11.5

\* Rate is calculated per 100,000 person-years. School age incidence rates were calculated using the average age of a student in each grade. High incidence rates in 5th and 6th grade may be due to waning immunity.

### Utah Case Counts of Pertussis, 2014-2019\* Year to Date



Pertussis tends to be cyclical. Reports have increased in Utah since 2010, peaked in 2012, and are currently trending downward. 2019 data, through MMWR week ending January 5 (MMWR week 1)

## Incidence of Pertussis by Local Health Department, 2019 YTD

Local Health Department	2019 Cases	Rate*
Bear River	1	3.2
Central Utah	0	0.0
Davis County	1	1.7
Salt Lake County	20	10.2
San Juan County	0	0.0
Southeast Utah	0	0.0
Southwest Utah	8	19.7
Summit County	0	0.0
Tooele County	2	17.2
TriCounty	0	0.0
Utah County	11	10.5
Wasatch County	0	0.0
Weber-Morgan	11	24.2

\* 2019 data includes pertussis cases reported year to date. 2014-2018 data reflects cases reported during the entire calendar year for each year.

